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NEXUS!

Market Analysis for MEMS and Microsystems III

2005 – 2009

The MST market will double until 2009

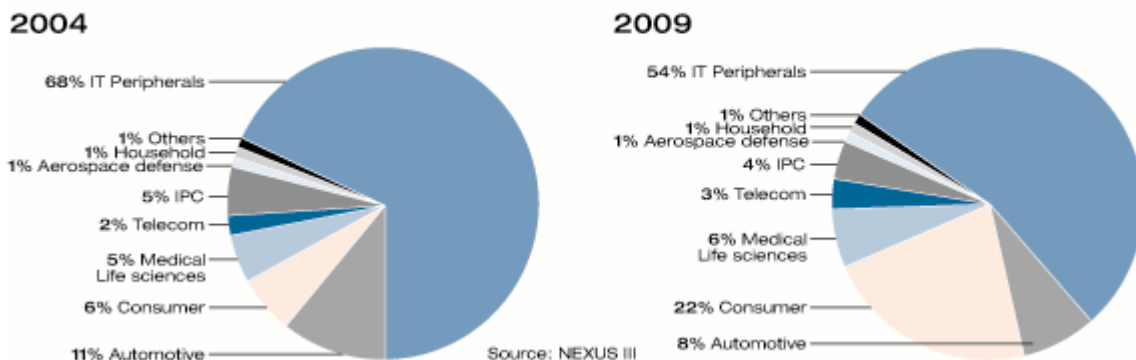
The markets for microsystems will double over the next five years from \$12 billion in 2004 to \$25 billion in 2009, a CAGR of 16%, according to a new market report by NEXUS.

This is the key issue of the new NEXUS Market Analysis for MEMS and Microsystems III. this report is again a reliable source for products and applications. It builds up on the world reputation of previous NEXUS reports covering 1998 - 2002 and 200-2005. This third NEXUS report continues to describe market winning technologies and provide the kind of actionable intelligence that gives you a head-start in existing and new high potential opportunities for 2005 to 2009.

MEMS and microsystem sensors and actuators continue to grow their position in established markets and find numerous new applications that leverage a combination of low manufacturing cost, compact size, low weight and power consumption, and increased intelligence.

The “NEXUS Market Analysis for MEMS and Microsystems III, 2005-2009” report determines that MST/MEMS sensors and actuators continue to consolidate their position in established **IT peripheral markets** for read/write heads and inkjet heads, in addition to creating new opportunities for microphones, memories, micro energy sources and chip coolers, for example. The **automotive sector** remains a major application field with several high-volume safety products including air bags and tire pressure monitoring systems.

MST/MEMS market by application fields, 2004-2009



The study, coordinated by WTC - Wicht Technologie Consulting on behalf of NEXUS, updates two previous reports from 1998 (for the years 1996 - 2002) and from 2002 (for 2000 - 2005), and covers 26 blockbuster and emerging MEMS/MST products. NEXUS



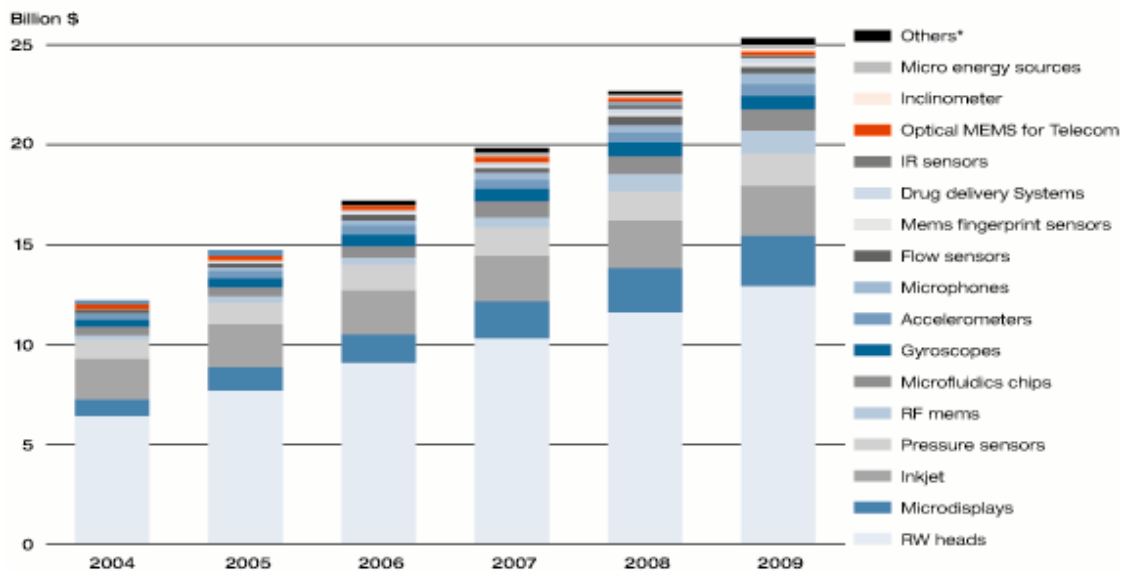
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also breaks out three new applications for consumer electronics, industrial process control, and aerospace, defense and homeland security.

Helping to propel the market is the meteoric rise of the **consumer electronics** segment, which is forecast to almost quadruple its share from 6% of the MST/MEMS market in 2004 to 22% in 2009 (a CAGR of 50%). In this segment we see rear and front projection TVs for home theatre, as well as HDDs serving the increasing storage requirements of digital equipment such as DVD recorders, digital cameras and camcorders, and portable MP3 players. A big driver is the mobile phone, which already features motion sensors and is amenable to a battery of additional sensors and functions like liquid lenses for camera zoom, fingerprint sensors, microfuel cell power sources, gas sensors and weather barometers.

In the report detailed opportunities for **26 MEMS/MST products** are described. Largest share have read/write heads and microdisplays, which will overtake inkjet heads in 2009 (based on Texas Instruments DLP chip for front projectors and rear projection TVs). Fast growing market are expected for microphones, RF MEMS and tyre pressures. Emerging markets include wafer probers, micro-motors, micro-spectrometers, micro-pumps and micro-reaction products. At the end of the decade more products are expected to impact the market, namely micro fuel cells, MEMS memories and e-fuses, chip coolers and liquid lenses for autofocus/zoom in camera phones.

Total market for 26 MST/MEMS products, 2004-2009



*Other are: microreaction, chip cooler, MEMS memories, liquid lenses, microspectrometer, wafer probers, micro-mirrors for optical processing, micro-pumps, micromotors, chemical analysis systems

Source: NEXUS III



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No other report offers this breadth of coverage, including the analysis of 6 larger and 7 smaller application areas.

The study is available now (December 2005), priced at 1,100 €.

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Market Analysis for MEMS and Microsystems III
2005 – 2009

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